

Applicant: Keith Wiedow et al.  
Application No.: 10/723,282  
Response to Office action dated Aug. 26, 2005  
Response filed November 21, 2005

### Claim Listing

1. (currently amended) An apparatus for crimping together multiple layers of tissue paper web comprising:

a plurality of ~~cross machine direction adjustable~~ transverse carriages mounted for motion in a cross machine direction;

an anvil roll mounted for rotation and extending in ~~[[a]]~~ the cross machine direction;

wherein ~~[[on]]~~ each transverse carriage has a support bracket mounted thereto by a linear bearing and at least one crimping wheel mounted for rotation to ~~[[a]]~~ the support bracket, the support bracket ~~mounted by a linear bearing to the transverse carriage,~~ the support bracket being mounted by the linear bearing for linear vertical

movement on the transverse carriage toward and away from the anvil roll; and wherein each transverse carriage has at least one linear actuator extending between the transverse carriage and the support bracket ~~on the transverse carriage~~, the linear actuator operable to cause linear movement on the linear bearing of the support bracket and the crimping wheel mounted thereto so that the ~~support bracket and the crimping wheel mounted to the support bracket is movable~~ can be moved into and out of engagement with the anvil roll.

2. (original) The apparatus of claim 1 wherein the support bracket is mounted to a vertical carriage, and wherein the support bracket and the vertical carriage have portions which define a mating vertical groove and way to define the linear bearing.

3. (previously presented) The apparatus of claim 1 further comprising an air knife mounted to each transverse carriage and positioned to direct a stream of air against said at least one crimping wheel mounted for rotation to said each support bracket.

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4. (previously presented) The apparatus of claim 3 wherein the air knife further comprises a member positioned above an air duct forming part of the air knife, the member having a Coanda surface arranged to direct air from the duct toward the at least one crimping wheel.

5. (currently amended) The apparatus of claim 1 further comprising:  
a first crimping wheel mounted for rotation on a first support bracket, the first support bracket being mounted by a first linear bearing to the transverse carriage for vertical movement toward and away from the anvil roll;  
wherein the at least one linear actuator comprises a first linear actuator extending between the transverse carriage and the first support bracket on the transverse carriage, the first linear actuator arranged to cause vertical movement of the first support bracket and the first crimping wheel mounted thereto into and out of engagement with the anvil roll;  
a second crimping wheel mounted for rotation on a second support bracket, the second support bracket mounted by a second linear bearing to the transverse carriage for vertical movement toward and away from the anvil roll, the first and second crimping wheels being mounted in spaced parallel relation; and  
wherein the at least one linear actuator further comprises a second linear actuator extending between the transverse carriage and the second support bracket on the transverse carriage, the second linear actuator arranged to cause vertical movement of the second support bracket and the second crimping wheel mounted thereto into and out of engagement with the anvil roll.

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6. (previously presented) The apparatus of claim 5 wherein the first linear actuator is arranged to be disconnected from between the transverse carriage and the first support bracket, and when disconnected the first crimping wheel and the first support bracket are arranged to be slid upwardly on the first linear bearing so as to provide access to the first crimping wheel and the second crimping wheel.

7. (previously presented) The apparatus of claim 6 further comprising a locking mechanism which has the function of locking the first support bracket and the first crimping wheel in a raised position to the transverse carriage, the raised position arranged to provide access to the first crimping wheel and the second crimping wheel.

8. (previously presented) The apparatus of claim 6 further comprising a handle mounted to the first support bracket, the handle arranged for positioning the transverse carriage, and arranged for raising and lowering the first crimping wheel.

9. (original) The apparatus of claim 5 wherein the first crimping wheel is mounted to a stub shaft which extends in a first direction from the first support bracket, and the second crimping wheel is mounted to a second stub shaft which extends from the second support bracket in a direction opposite the first direction, so that the first stub shaft and the second stub shaft extend towards each other.

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10. (original) The apparatus of claim 9 further comprising:
  - a first guard mounted to the first bracket and extending radially outwardly from the first stub shaft and then extending axially to cover a portion of the first crimper peripheral edge; and
  - a second guard mounted to the second bracket and extending radially outwardly from the second stub shaft and then extending axially to cover a portion of the second crimper peripheral edge.